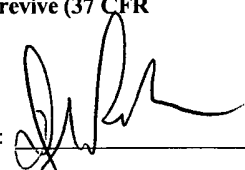


FORM PTO-1390 (REV 10-94)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER 10921.0273USWO
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) Unknown <b>10/523506</b>
INTERNATIONAL APPLICATION NO. PCT/JP2003/010036	INTERNATIONAL FILING DATE August 6, 2003	PRIORITY DATE CLAIMED August 7, 2002	
TITLE OF INVENTION METHOD OF SEPARATING TARGET GAS			
APPLICANT(S) FOR DO/EO/US SUMIDA et al.			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(l).</p> <p>4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</p> <p style="margin-left: 20px;">b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</p> <p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been transmitted by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</p> <p>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p><b>Items 11. to 16. below concern document(s) or information included:</b></p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information: Application Data Sheet (5 pages), 11 sheets of formal drawings, COMMUNICATION UNDER 37 C.F.R. §1.32(c)(3), Form 1449 (9 references), International Publication Page WO 2004/014523 A1, International Request Form, Form PCT/ISA/210, Form PCT/IB/304, Form PCT/IB/308, COMMUNICATION REGARDING REQUESTED FIGURE, Translator's Declaration</p>			

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
Unknown <b>10/523506</b>		PCT/JP2003/010036		10921.0273USWO	
<b>BASIC NATIONAL FEE (37 CFR 1.492(a) (1)-(5)):</b>					
[X] a) Basic National fee.....\$300.00				\$300.00	
[X] b) Examination fee.....\$200.00				\$200.00	
[X] c) Search fee.....\$500.00				\$500.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1000.00</b>	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional set of sheets (1 set= 50 sheets)	Rate		
44	-100 = 0	/50 =	X \$250.00	\$0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than [ ] 20 [ ] 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$0.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	6	-20 = 0	X \$50.00	\$0.00	
Independent claims	1	-3 = 0	X \$200.00	\$0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$0.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1000.00</b>	
Reduction by 1/2 for filing by small entity, if applicable. Small entity status is claimed pursuant to 37 CFR 1.27				\$0.00	
<b>SUBTOTAL =</b>				<b>\$1000.00</b>	
Processing fee of \$130.00 for furnishing the English translation later than [ ] 20 [ ] 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+ \$0.00	
<b>TOTAL NATIONAL FEE =</b>				<b>\$1000.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$40.00	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$1000.00 &amp; \$40.00</b>	
				Amount to be: refunded	\$0.00
				charged	\$0.00
<p>a. [X] Check(s) in the amount of <u>\$1000.00 &amp; \$40.00</u> to cover the above fees is enclosed.</p> <p>b. [ ] Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>13-2725</u>.</p> <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p> <p>SEND ALL CORRESPONDENCE TO: Douglas P. Mueller MERCHANT &amp; GOULD P.O. Box 2903 Minneapolis, MN 55402-0903</p> <p>SIGNATURE: </p> <p>NAME: Douglas P. Mueller</p> <p>REGISTRATION NUMBER: 30,000</p>					

Applicant: SUMIDA et al.

DT01 Rec'd PCT/PTC 04 FEB 2005

Docket: 10921.0273USWO

Title: METHOD OF SEPARATING TARGET GAS

## CERTIFICATE UNDER 37 CFR 1.10

'Express Mail' mailing label number: EV 40725758 US

Date of Deposit: February 4, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By: 

Name: David Ortiz

Mail Stop PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.10.
- ☒ National Stage PCT Patent Application: Spec. 29 pgs; 6 claims; Abstract 1 pgs.  
The fee has been calculated as shown below in the 'Claims as Filed' table.
- ☒ 11 sheets of formal drawings
- ☒ A signed Combined Declaration and Power of Attorney
- ☒ Assignment of the invention to SUMITOMO SEIKA CHEMICALS CO., LTD., Recordation Form Cover Sheet
- ☒ A check in the amount of \$1000.00 to cover the Filing Fee
- ☒ A check for \$40.00 to cover the Assignment Recording Fee.
- ☒ Information Disclosure Statement, Form 1449, 9 reference(s).
- ☒ Application Data Sheet, 5 pages.
- ☒ Other: COMMUNICATION UNDER 37 C.F.R. §1.32(c)(3), International Publication Page WO 2004/014523 A1, International Request Form, Form PCT/ISA/210, Form PCT/IB/304, Form PCT/IB/308, COMMUNICATION REGARDING REQUESTED FIGURE, Translator's Declaration, Preliminary Amendment (3 pages), PTO Form 1390
- ☒ Return postcard

## CLAIMS AS FILED

Number of Claims Filed	No.	In Excess of	Extra	Rate	Fee
<b>Total Claims</b>	6	20	0	\$50.00	\$0.00
<b>Independent Claims</b>	1	3	0	\$200.00	\$0.00
<b>Multiple Dependent Claims Fee</b>					\$0.00
<b>Basic Filing Fee</b>					\$300.00
<b>Search Fee</b>					\$200.00
<b>Examination Fee</b>					\$500.00
<b>Utility Application Size Fee</b>	44	100	0	\$250.00	\$0.00
<b>Total</b>					\$1000.00

Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

**23552**

PATENT TRADEMARK OFFICE

MERCHANT &amp; GOULD P.C.

P.O. Box 2903, Minneapolis, MN 55402-0903  
(612) 332-5300

By: 

Name: Douglas P. Mueller

Reg. No.: 30,300

Initials: DPM/acp

(PTO TRANSMITTAL - NEW FILING)

10/523506

DT01 Rec'd PCT/PTC 04 FEB 2005  
PATENT

S/N Unknown

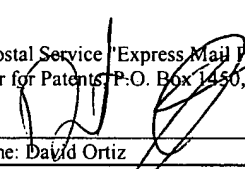
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: SUMIDA et al. Serial No.: Unknown  
Filed: concurrent herewith Docket No.: 10921.0273USWO  
Title: METHOD OF SEPARATING TARGET GAS

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: EV 407257758 US  
Date of Deposit: February 4, 2005

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By:   
Name: David Ortiz

COMMUNICATION UNDER 37 C.F.R. §1.32(c)(3)

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.32 (c)(3) please appoint the following practitioners named in the Power of Attorney to be recognized by the U.S. Patent Office as being of record in the above-identified application:

Brian H. Batzli (32,960)  
John A. Clifford (30,247)  
John J. Gresens (33,112)  
Michael D. Schumann (30,422)

James A. Larson (40,443)  
Douglas P. Mueller (30,300)  
Curtis B. Hamre (29,165)  
Gregory A. Sebald (33,280)

The undersigned was named on the Power of Attorney.

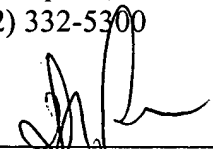
**23552**

PATENT TRADEMARK OFFICE

Respectfully submitted,

MERCHANT & GOULD P.C.  
P.O. Box 2903  
Minneapolis, Minnesota 55402-0903  
(612) 332-5300

Dated: February 4, 2005

By:   
Douglas P. Mueller  
Reg. No. 30,300

DPM/acp